

**FIBER OPTIC TRANSCEIVER ARRAY AND FIBER OPTIC TRANSCEIVER
CHANNEL FOR SHORT WAVE FIBER OPTIC COMMUNICATIONS**

Abstract of the Disclosure

5 A fiber optic transceiver array and a fiber optic transceiver channel
are provided for short wave fiber optic communications. A fiber optic
transceiver array for short wave fiber optic communications includes a series
of fiber optic transceiver channels. Each fiber optic transceiver channel
includes a plurality of test pads. A power distribution bypass capacitor is
10 distributed along the series of fiber optic transceiver channels. A plurality of
high voltage power supply and ground connections are coupled through the
power distribution bypass capacitor and distributed around the series of fiber
optic transceiver channels. A threaded high voltage power supply
connection is provided to alternating ones of the series of fiber optic
15 transceiver channels. A threaded ground connection is provided to
alternating other ones of the series of fiber optic transceiver channels to
reduce power noise generation and susceptibility to noise between adjacent
channels. A power to ground decoupling capacitor included with each fiber
optic transceiver channel also enhances power noise sensitivity reduction. A
20 fiber optic transceiver channel for short wave fiber optic communications
includes at least a high voltage power supply connection and a ground
connection. A plurality of test pads includes at least a ground connection
and a pair of differential output connections. A channel decoupling capacitor
is positioned proximate to the pair of differential output connections.